

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number
WO 2004/007491 A1

(51) International Patent Classification⁷: C07D 417/06, (74) Agent: HASSA, Juergen; Serono International SA, Intellectual Property Department, 12 Chemin des Aulx, 1228 Plan-les-Ouates (CH).

(21) International Application Number:
PCT/EP2003/050302

(22) International Filing Date: 10 July 2003 (10.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02100798.4 10 July 2002 (10.07.2002) EP
10/289,998 7 November 2002 (07.11.2002) US

(71) Applicant (for all designated States except US): APPLIED RESEARCH SYSTEMS ARS HOLDING N.V.
[NL/NL]; Pietermaai 15, Curaçao (AN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RUECKLE, Thomas [DE/CH]; Chemin du Vieux Puits 9, 1228 Plan-les-Ouates (CH). JIANG, Xullang [US/US]; Kelley Drive 73, 02184 Braintree, Massachusetts (US). GAILLARD, Pascale [FR/FR]; Domaine de la Prasle, Route du Fer à Cheval 243, 74160 Collonges-sous-Salève (FR). CHURCH, Denials [US/CH]; Chemin des Vignes 4, 1291 Commugny (CH). VALLOTTON, Tanla [CH/CH]; Chemin du Pré-Puits 30, 1246 Corsier (CH).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

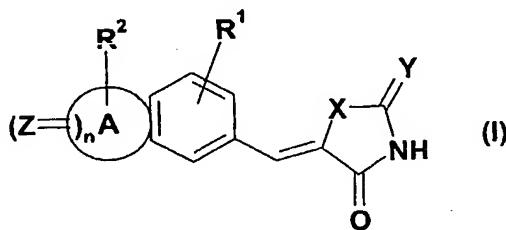
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AZOLIDINONE-VINYL FUSED-BENZENE DERIVATIVES

WO 2004/007491 A1



(57) **Abstract:** The present invention is related to azolidinedione-vinyl fused-benzene derivatives of formula (I) for the treatment and/or prophylaxis of autoimmune disorders and/or inflammatory diseases, cardiovascular diseases, neurodegenerative diseases, bacterial or viral infections, kidney diseases, platelet aggregation, cancer, graft rejection or lung injuries. Formula (I), wherein A, X, Y, Z, R¹, R² and n are as described in the description.